



JP10290933A: DEODORIZATION CATALYST, DEODORIZATION FILTER USING THE SAME AND DEODORIZER USING THE SAME

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Abstract: **Problem to be solved:** To enhance deodorizing efficiency for a malodorous gas and to improve durability by carrying a specified amt. of a mixture of oxides of Mn and Cu as catalytically active components on the surface of a powdery carrier contg. one or more among aluminum silicate contg. γ -alumina, silica and zeolite, silica, titania, etc.

Solution: A powdery carrier contg. one or more among aluminum silicate contg. γ -alumina, silica and zeolite, silica, titania, etc., is dispersed in water and mixed to prepare a slurry. An Mn salt such as manganese nitrate, manganese sulfate or manganese chloride and a Cu salt such as copper nitrate or copper chloride are added to the slurry by 1-20 pts.wt. (expressed in terms of oxides) based on 100 pts.wt. of the carrier and they are mixed and dried. The resultant dry powder is heat-treated at a prescribed temp. to obtain the objective deodorization catalyst. When this catalyst is used, high deodorizing ability is ensured at a low temp. of about $\approx 100^{\circ}\text{C}$, SO_x and NO_x are not generated, environmental pollution is prevented and energy is saved. High deodorizing ability can be ensured immediately after the beginning of deodorization.

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